



# NEUMA

Transforming Air Quality into Art

The Neuma device - a spherical interactive installation that visualizes CO<sub>2</sub> levels through dynamic light patterns



# THE PROBLEM

- Invisible Threat: Indoor air quality significantly impacts health, yet remains largely undetected
- Disconnection: Most people are unaware of how their behaviors affect CO<sub>2</sub> levels
- Engagement Gap: Traditional air quality monitors are technical, utilitarian, and fail to inspire action

# **OUR SOLUTION: NEUMA**

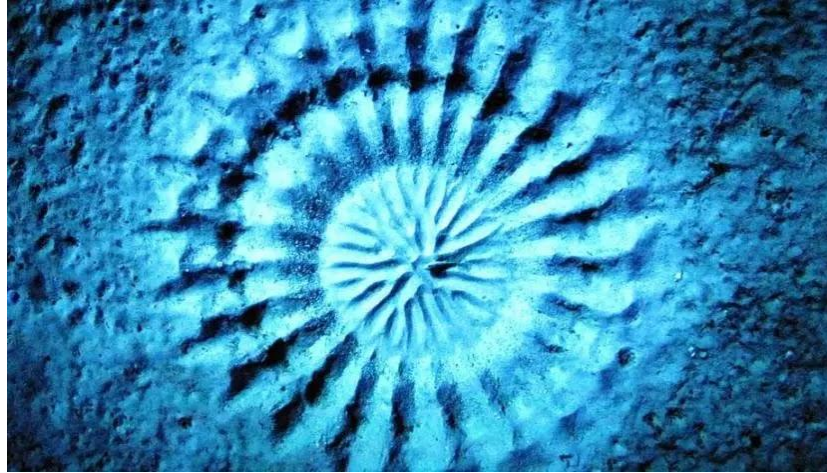
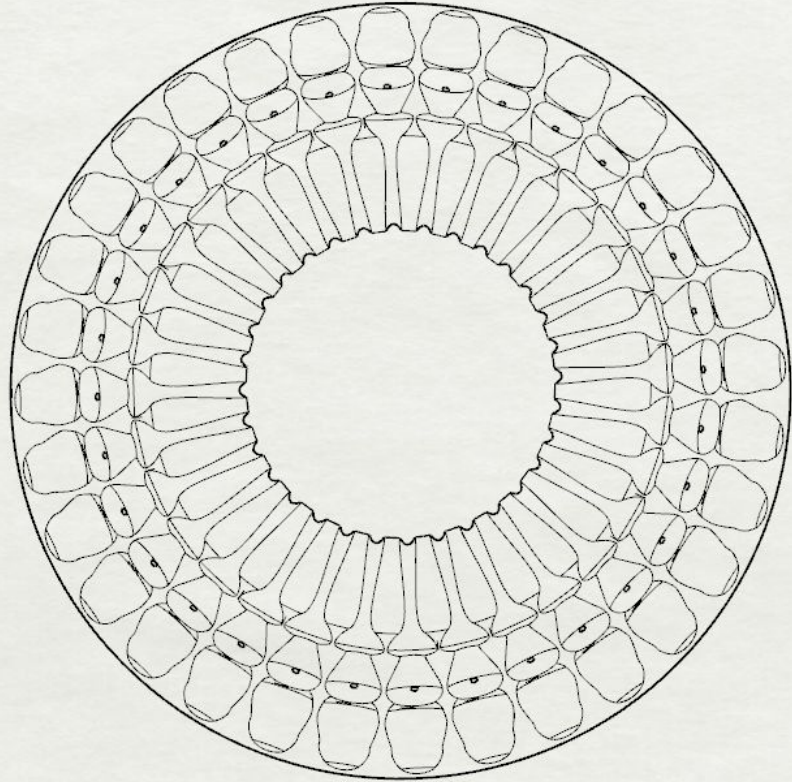
**An interactive device that transforms invisible CO<sub>2</sub> data into a mesmerizing visual experience, making air quality tangible and meaningful.**

*“Neuma's dynamic light patterns change in response to CO<sub>2</sub> concentrations, creating an artistic visualization of air quality”*



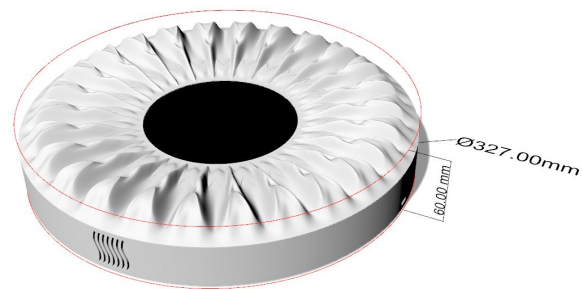
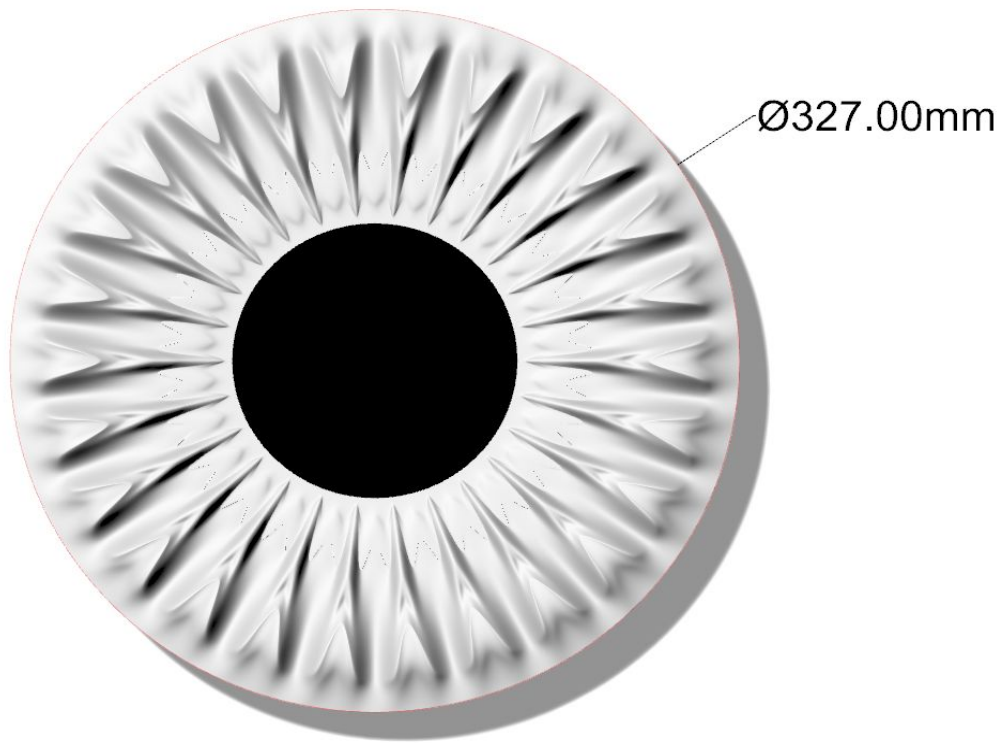
# DESIGN PHILOSOPHY

- Biomimetic Inspiration: Form based on the endangered pufferfish's intricate sand nests
- Environmental Symbolism: Represents the fragility of our ecosystems
- Artistic Approach: Merges scientific data with aesthetic experience
- Tangible Awareness: Makes invisible air quality visible and beautiful



# HOW IT WORKS

- Sensitive CO<sub>2</sub> Sensor: continuously monitors indoor air quality
- Real-time Data: is transformed into dynamic visualizations
- Responsive Light and Animations: change in shape, speed, and color as CO<sub>2</sub> levels fluctuate
- Immediate Feedback: creates awareness and encourages ventilation



# MARKET OPPORTUNITY

- Educational institutions seeking innovative teaching tools
- Design-conscious consumers interested in sustainable living
- Public and private schools aiming to raise environmental awareness
- Corporations investing in employee wellbeing and productivity



# THE CREATORS

Les Petits Labos is an interdisciplinary research and creation laboratory. Its primary objective is to explore new eco-responsible production methods for artistic creation. Located within the Tiers lab des Transitions in Marseille, this laboratory, co-founded by **Diego Ortiz** and **Hernan Zambrano**, promotes a convergence between art, ecology, and new technologies.





## Les Petits Labos

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